



King County

Department of Natural Resources and Parks • Wastewater Treatment Division
Community Services and Environmental Planning • 201 S. Jackson St., MS KSC-NR-0505
Seattle, WA 98104-3855 • Phone (206) 684-1714 • FAX (206) 684-1278

DETERMINATION OF NONSIGNIFICANCE (DNS)

TITLE OF PROPOSAL: South Treatment Plant Maintenance Annex Paint Shop and Lube Oil Storage Room Modifications Project.

DESCRIPTION OF PROPOSAL: The King County Wastewater Treatment Division proposes to demolish and replace the existing paint booth located in the Renton South Plant Maintenance Shop Annex Building and upgrade the paint shop office area. The new, larger paint booth will have improved air flow characteristics and lighting, the paint shop office area will be enclosed and the existing double swinging door will be replaced with a larger roll up door. Improved interior electrical lighting and HVAC system are also planned. Additional modifications and improvements are also planned for the lube oil storage room. Improvements include replacing the existing swinging double door with a larger roll up door, providing a man-door entry and egress to the north yard, and improving interior electrical lighting and HVAC systems. All work will take place within or on top of an existing building.

LOCATION OF PROPOSAL, INCLUDING STREET ADDRESS, IF ANY: The project site is in King County's South Treatment Plant (address: 1200 Monster Road, Renton, Washington 98055). The plant is located in southwest Renton just north of I-405 (Section 24, Township 23 North, Range 4 East).

Responsible Official:

Christie True

Position/Title:

Division Director, King County Wastewater Treatment Division

Address:

201 S. Jackson St.
Seattle, WA 98104

Date: May 5, 2008

Signature: 

Proponent and Lead Agency:

King County Wastewater Treatment Division

Contact Person:

Meredith Redmon, Environmental Planner
King County Wastewater Treatment Division
201 S. Jackson St., MS KSC-NR-0505
Seattle, WA 98104, (206) 263-6185

Issue Date:

May 7, 2008

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

☒ This DNS is issued under WAC 197-11-340 (2); the lead agency will not act on this proposal for 17 days from the issue date. **Comments must be submitted by May 24, 2008.** Submit comments to Wesley Sprague, Supervisor Community Services and Environmental Planning Unit, 201 S. Jackson St., MS KSC-NR-0505, Seattle, WA 98104-3855.

☒ The King County Wastewater Treatment Division intends to submit an application for a Notice of Construction to the Puget Sound Clean Air Agency, and applications to the City of Renton for Electrical, Mechanical, and Building Permits. Thus there is no administrative appeal of this DNS pursuant to RCW 43.21C.075, WAC 197-11-680, KCC 20.44.120 and King County Public Rule 7-4. If you have questions about the procedures for SEPA appeals, please contact Meredith Redmon at 206-263-6534 or at Meredith.Redmon@kingcounty.gov.

Statutory authority: RCW 43.21C.110. 84-05-020 (Order DE 83-39), §197-11-970, filed 2/10/84, effective 4/4/84

Environmental Checklist

for the

**South Treatment Plant Maintenance Annex Paint Shop
and Lube Oil Storage Room Modifications Project**

May 1, 2008

Prepared in compliance with the State Environmental Policy Act (SEPA)
(RCW 43.21C), the SEPA Rules (WAC 197-11), and Chapter 20.44 King
County Code, implementing SEPA in King County procedures.

This information is available in accessible formats upon request at
206-684-1280 (voice) or 711 (TTY).



King County

Department of Natural Resources and Parks

Wastewater Treatment Division

King Street Center, KSC-NR-0505

201 South Jackson Street

Seattle, WA 98104

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. Name of the proposed project:

South Treatment Plant Maintenance Annex Paint Shop and Lube Oil Storage Room Modifications

2. Name of Applicant:

King County Wastewater Treatment Division

3. Address and telephone number of applicant and contact person:

King County Wastewater Treatment Division
201 S. Jackson St., MS KSC-NR-0505
Seattle, WA 98104-3855

CONTACT: Meredith Redmon, Telephone: (206) 263-6534

4. Date Checklist Prepared: May 1, 2008

5. Agency Requesting Checklist:

King County Wastewater Treatment Division

6. Proposed timing or schedule (including phasing, if applicable):

Construction is scheduled to take place starting in October 2008 and be completed by March 2009.

7. Do you have any plans for future additions, expansions, or further activity related to or connected with this proposal? If yes, explain.

There are no plans for future additions or expansions related to this project.

8. Environmental information that has been prepared, or will be prepared, directly related to this project:

None has been prepared.

9. **Applications that are pending for governmental approvals or other proposals directly affecting the property covered by the proposal:**

None.

10. **List of governmental approvals or permits that may be needed for the proposal:**

Building Permit (City of Renton)
Electrical Permit (City of Renton)
Fire Permit (City of Renton)
Mechanical Permit (City of Renton)
Notice of Intent: Demolition (Puget Sound Clean Air Agency)

11. **Brief, complete description of the proposal, including the proposed uses and the size of the project and site:**

The King County Wastewater Treatment Division proposes to demolish and replace the existing paint booth located in the Renton South Plant Maintenance Shop Annex Building and upgrade the paint shop office area. The new, larger paint booth will have improved air flow characteristics and lighting, the paint shop office area will be enclosed and the existing double swinging door will be replaced with a larger roll up door. Improved interior electrical lighting and HVAC system are also planned. Additional modifications and improvements are also planned for the lube oil storage room. Improvements include replacing the existing swinging double door with a larger roll up door, providing a man-door entry and egress to the north yard, and improving interior electrical lighting and HVAC systems.

12. **Location of the proposal, including street address, if any, and section, township, and range; legal description; site plan; vicinity map; and topographical map, if reasonably available:**

The South Plant site (1200 Monster Road, Renton, Washington 98055) is located in southwest Renton just north of I-405 (Section 24, Township 23 North, Range 4 East). The South Plant is bordered by Springbrook Creek (P-1 Channel) on the east, Oakesdale Avenue Southwest to the north, Monster Road to the west, and Southwest Grady Way to the south (see enclosed site map and location/vicinity map).

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. **General description of the site (underline):**

Flat, rolling, hilly, steep slopes, mountainous, other

- b. **What is the steepest slope on the site (approximate percent slope)?**

The site is generally flat.

- c. What general types of soils are found on the site (for example clay, sand, gravel, peat, muck)? Specify the classification of agricultural soils and note any prime farmland.**

The King County Soil Survey Map (Soil Conservation Service, 1972) indicates the South Plant site is covered by soils associated with urban land (fill) and alluvium associated with river bottoms. Soil series include: Woodinville, Puyallup, Newbey, and Beausite.

- d. Are there any surface indications or a history of unstable soils in the immediate vicinity? If so, describe.**

There are no surface indications or a history of unstable soils on the site.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate the source of the fill.**

No filling or grading is associated with this project.

- f. Could erosion occur as a result of clearing, construction, or use?**

All construction work associated with the new paint booth and lube oil storage room will occur inside the Renton South Plant Maintenance Shop Annex Building. Therefore erosion will not occur as a result of demolishing and replacing the paint booth or of improvements in the lube oil storage room.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example buildings or asphalt)?**

About 50-acres or, 55% of the 95-acre main South Plant site is covered with impervious surface. All improvements associated with the new paint booth and the lube oil storage room will be located within the existing Renton South Plant Maintenance Shop Annex Building and therefore will not increase impervious surface area.

- h. Describe the proposed measures to reduce or control erosion, or other impacts to the earth, if any.**

None needed.

2. Air

- a. What types of emissions to the air would result from the proposal (e.g. dust, automobile, odors, industrial, wood smoke) during construction and when**

the project is completed? If any, generally describe and give approximate quantities, if known.

During construction, there may be a small increase in exhaust emissions from construction vehicles and equipment. These impacts are anticipated to be temporary.

No new air emissions are anticipated. Emissions associated with the new paint booth will be similar to those from the existing paint booth emissions.

A King County Greenhouse Gas Emissions worksheet is attached.

- b. Are there any off-site sources of emissions or odors that may affect your proposal? If so, generally describe.**

None.

- c. Describe proposed measures to reduce or control emissions or other impacts to air, if any.**

Best management practices to limit dust and reduce construction vehicle exhaust emission will be employed. BMPs that may be used to control construction equipment-related emissions include requiring proper maintenance of equipment, using electrically powered equipment where practical, and avoiding prolonged idling of vehicles and equipment.

3. Water

- a. Surface:**

- 1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, and wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

There is one surface water feature on the South Plant site in Renton. An enhanced wetland exists north of the plant digesters. Waterworks Gardens is a public space that incorporates this wetland into a stormwater treatment system.

Springbrook Creek, the Green River, and the Black River are located near the site. Springbrook Creek (P-1 Channel) is adjacent to the eastern boundary between the South Plant and Oakesdale Avenue Southwest (see enclosed site map). The Renton South Plant Maintenance Shop Annex Building is more than 1,287 feet from Springbrook Creek. The Green

River is located more than 1,079 feet to the southwest and the Black River is located more than 2,522 feet to the northeast of the Renton South Plant Maintenance Shop Annex Building.

2. **Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

No work associated with the proposed project is planned to occur over, in, or within 200 feet of these waters.

3. **Estimate the amount of fill and dredge material that could be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill materials.**

No work associated with the proposed project is planned to occur in or near surface waters or wetlands.

4. **Will the proposal require surface water withdrawals or diversion? Give general description, purpose, and approximate quantities, if known.**

No surface water withdrawals or diversions are required.

5. **Does the proposal lie within a 100-year flood plain? If so, note location on the site plan.**

The proposed project does not lie within a 100-year floodplain.

6. **Does the proposal involve discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No discharge of waste materials to surface water would occur.

b. Ground

1. **Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

No ground water would be withdrawn nor would water be discharged to groundwater. Groundwater is approximately 20 feet below the ground surface at the site. No excavation activities are associated with this project; therefore dewatering is not anticipated.

2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any. Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) is expected to serve.

None.

c. Water Runoff (including storm water)

1. Describe the source of runoff (including storm water) and method of collection and disposal, if any (including quantities if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Precipitation is the source of site runoff. Collection and disposal of runoff for this project will conform to all applicable storm water management guidelines and regulations. No additional storm water runoff is anticipated associated with this project. All runoff from the project site will continue to be handled by the existing storm water system.

2. Could waste materials enter ground or surface waters? If so, generally describe.

There is no waste material produced by the project that could enter ground or surface waters.

- d. Describe proposed measures to reduce or control surface, ground, and runoff water impacts, if any.**

No measures in addition to conforming to all applicable storm water management guidelines and regulations are planned.

4. Plants

- a. Check or circle types of vegetation found on the site:**

☒ deciduous tree: alder, oak, other
☒ evergreen tree: fir, cedar, pine, other
☐ shrubs
☒ grass
☐ pasture
☐ crop or grain
☐ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
☐ water plants: water lily, eelgrass, milfoil, other
☒ other types of vegetation—Urban ornamental shrubbery in vicinity.

b. What kind and amount of vegetation will be removed or altered?

No vegetation will be removed or altered as a result of this project. All planned project improvements are located inside the Renton South Plant Maintenance Shop Annex Building.

c. List threatened or endangered species or critical habitat known to be on or near the site.

There are no threatened or endangered plant species known to be on the South Plant site.

d. Describe proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on site.

Landscaping will not be impacted as a result of this project.

5. Animals

a. Underline any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds, other: starlings, crows, pigeons, house finches.

mammals: deer, bear, elk, beaver, other:

fish: bass, salmon, trout, herring, shellfish, other: sculpin

b. List any threatened or endangered species or critical habitat near the site.

There are no threatened or endangered species known to exist on the South Plant site.

An active great blue heron rookery, known locally as the Black River Heron Rookery, is located approximately 1,500 feet north of the South Plant in a cottonwood grove.

The P-1 Pond, north of the heron rookery, is used for feeding by adult and fledged young herons. Newly fledged young herons appear to use the shallow ponds for feeding during July and August, eventually moving to more productive feeding areas in the Green River Valley. A majority of the adult herons returning to and leaving the rookery on feeding forays fly south and east of the rookery. This includes visits to the small wetland area in the north of South Plant.

The Washington State Department of Fish and Wildlife has designated the great blue heron as a "monitor" species. The "monitor" classification indicates a species of special interest because it: 1) has significant popular appeal; 2) requires limited habitat during some portion of its life cycle; 3) is an indicator of environmental quality; 4) requires further field investigation to determine population status classification; or 5) was justifiably removed from Endangered, Threatened, or Sensitive classification.

Also, several fish species that likely use Springbrook Creek, Green River, and Black River surrounding the project site are listed under the Federal Endangered Species Act. Steelhead Trout, Bull Trout, and Puget Sound Chinook salmon are listed as threatened. Puget Sound/Straight of Georgia Coho salmon (*Oncorhynchus kisutch*) salmon is a candidate for listing.

c. Is the site part of a migratory route? If so, explain.

The entire Puget Sound area is part of the Pacific Flyway. The Green River corridor, approximately 1000 feet from the proposed project area serves as a localized pathway for many birds and animals.

d. Proposed measures to preserve or enhance wildlife, if any.

The proposed project is not expected to result in any impacts to wildlife or wildlife habitat; therefore, mitigation measures have not been developed.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The new paint booth would require electricity to power building systems including lights, HVAC, and painting equipment.

b. Would the project affect the potential use of solar energy by adjacent properties? If so, explain.

The project would not affect the potential use of solar energy in the area.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

The work bench in the paint booth will have a dual speed exhaust fan, which may conserve energy during smaller jobs.

7. Environmental Health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spills, or hazardous waste that could occur as a result of this proposal? If so, describe.**

Concentrations of lead based paint (LBP) were found on all four walls and the ceiling beams in the paint shop room and the walls in the lube oil storage room. Lead-laden dust, vapors, and fumes may be a human health concern if the LBP materials are disturbed using abrasive or heat techniques such as grinding, sanding, sawing, and associated hot work during construction activities.

- 1. Describe special emergency services that might be required.**

No special emergency services are anticipated as a result of this proposal.

- 2. Describe proposed measures to reduce or control environmental health hazards.**

The contractor will submit a lead abatement plan indicating how LBP materials will be removed, what worker protection will be utilized, health and safety monitoring, and the disposal method for waste material and debris. Examples of proposed measures to control exposure to LBP materials could include no abrading, grinding, or other hot work methods during the removal of LBP materials.

b. Noise

- 1. What types of noise exist in the area which may affect your project (for example: traffic, equipment operation, other)?**

The noise environment surrounding the South Plant is complex with a number of intermittent sources. Traffic noise from nearby roadways, including Interstate-405, is the predominant steady state noise source in the area. However, overhead aircraft from nearby Sea-Tac and King County International airports, train traffic, surface street traffic and operational noise at the South Plant also contribute to the overall noise environment. Noise measurements taken in 2002 found a multi-day average ambient noise level of 57.8 dBA at the northern perimeter of South Plant. An ordinary conversation has ambient sound level of 60 dBA.

- 2. What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)?**

Short-term temporary increases in noise levels may be experienced during construction. It is anticipated that noise from nearby roadways will mask the noise from construction. No new noise will be produced as a result of this project. Noise associated with the new paint booth will be similar to the existing conditions.

3. Describe proposed measures to reduce or control noise impacts, if any.

All construction is scheduled to occur Monday through Friday between 6:00 AM and 6:00 PM and is subject to the local and state noise regulations. When appropriate, low-level noise emitting construction equipment would be utilized.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

Current use of the site is for a regional wastewater treatment plant. Surrounding properties to the west, east, and south include business parks and warehouse spaces. To the north of the site is the Waterworks Gardens.

b. Has the site been used for agriculture? If so, describe.

The site could have been used for agriculture many decades ago. The South Plant has been located on the site since 1965.

c. Describe any structures on the site.

Existing structures on the site include industrial buildings and other facilities for wastewater and solids treatment and processing as well as an electrical substation.

d. Will any structures be demolished? If so, what?

No structures will be demolished. All construction activities will take place inside the South Plant Maintenance Shop Annex Building.

e. What is the current zoning classification of the site?

The site's current zoning is Heavy Industrial (IH).

f. What is the current comprehensive plan designation of the site?

As of November 1, 2004 the current comprehensive plan designation is "employment area valley."

- g. If applicable, what is the current shoreline master program designation of the site?**

Not applicable.

- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.**

The site is not an "environmentally sensitive" area.

- i. Approximately how many people would reside or work in the completed project?**

No increase in staff is necessary as a result of this project.

- j. Approximately how many people would the completed project displace?**

None.

- k. Describe proposed measures to avoid or reduce displacement impacts, if any.**

Not applicable.

- l. Describe proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.**

None. The proposal is compatible with these land uses and plans.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.**

Not applicable.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.**

Not applicable.

- c. Describe proposed measures to reduce or control housing impacts, if any.**

Not applicable.

10. Aesthetics

- a. **What is the tallest height of any of the proposed structure(s), not including antennas? What is the principal exterior building material(s) proposed?**

Two new HVAC units will be installed on the roof of the South Plant Maintenance Annex Building. The HVAC units will add 3 to 4 feet to the building height, bringing the total height of the South Plant Maintenance Annex Building to about 15 feet. The new paint booth will be located inside this building.

- b. **What views in the immediate vicinity would be altered or obstructed?**

The project is not expected to alter or obstruct views in the immediate vicinity.

- c. **Describe proposed measures to reduce aesthetic impacts, if any.**

The proposed project is not expected to impact aesthetics; therefore, mitigation measures have not been developed.

11. Light and Glare

- a. **What type of light and glare will the proposal produce? What time of day would it mainly occur?**

No new exterior lighting will be installed as part of this project. Therefore, no light and glare emitting sources are associated with this project.

- b. **Could light or glare from the finished project be a safety hazard or interfere with views?**

No.

- c. **What existing off-site sources of light or glare may affect your proposal?**

None.

- d. **Describe the proposed measures to reduce or control light and glare impacts, if any.**

None have been determined necessary.

12. Recreation

- a. **What designated and informal recreational opportunities are in the immediate vicinity?**

Recreational use of the South Plant site is limited to lunchtime activities by the employees. Adjacent to South Plant is Waterworks Garden, an 8-acre park that combines public art with water quality treatment. Along with trails, public art, native plants and wildlife, the ponds and marshes of Waterworks filter and clean storm water from the plant's fifty acres of roads, parking lots and hard surfaces that are not associated with wastewater treatment process. Off site, several parks and trails are within a few miles of the South Plant. The parks nearest the site within the City of Renton are Earlington Park, Lake Street Park, Lower Talbot Park, Philip Arnold Park, Thomas Teasdale Park, and Oakesdale Park (Springbrook Creek Trail). Fort Dent Park is approximately 500 feet west of South Plant in the City of Tukwila. Foster Golf Course lies northwest of Fort Dent Park in Tukwila, approximately 0.75 mile from South Plant.

- b. Would the proposed project displace any existing recreational uses? If so, describe.**

The project would not displace any existing recreational uses.

- c. Describe proposed measures to reduce or control impacts on recreation, including recreational opportunities to be provided by the project or applicant.**

Not applicable.

13. Historic and Cultural Preservation

- a. Are there any places or objects listed on or eligible for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.**

There are no places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site.

- b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.**

King County Wastewater Treatment Division and its predecessor agency Metro have carried out six archaeological studies for the South Plant site over the past 25 years. None of these studies have identified any archaeological resources within the South Plant site. One known archaeological site is approximately 750 feet from the project site. This site would not be affected by construction of this project.

- c. Describe proposed measures to reduce or control impacts, if any.**

No historic, archaeological or other cultural resources are located near the project. Therefore no historic, archaeological or other cultural resource impact mitigation measures are proposed.

14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.**

There are three main access points to South Plant. Connecting roadways to the site are S.W. 7th Street on the northeastern side, Monster Road S.W. on the northwestern side, and Longacres Drive S.W. on the south side via S.W. Grady Way. Roadside parking is not allowed on any of these streets. Monster Road S.W. and Longacres Drive are two-lane roadways. S.W. 7th Street has five lanes. The intersections of S.W. 7th Street/Oakesdale Avenue S.W. and S.W. Grady Way/ Oakesdale are signalized. The Monster Road S.W./Longacres Drive intersection has a stop sign on Monster Road S.W.

- b. Is the site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?**

King County Metro Transit Bus routes (110, 140, 161, and 280) stop within one half mile of South Plant. No impacts on or disruptions to these bus routes are anticipated related to this proposal.

- c. How many parking spaces would the completed project have? How many would the project eliminate?**

The project would not add or remove parking spaces.

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe.**

No new public roads or streets would be required.

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

Not applicable.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.**

None.

- g. **Describe proposed measures to reduce or control transportation impacts, if any.**

Not applicable.

15. Public Services

- a. **Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally explain.**

There would be no increase in the need for public services.

- b. **Describe proposed measures to reduce or control direct impacts on public services.**

If required, mitigation under the City of Renton Fire Mitigation Fee will be provided.

16. Utilities

- a. **Underline utilities currently available at the site:**

Electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic systems, other

- b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

No additional utilities are proposed for the project.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Wesley Sprague

Date Submitted: _____

5/1/08

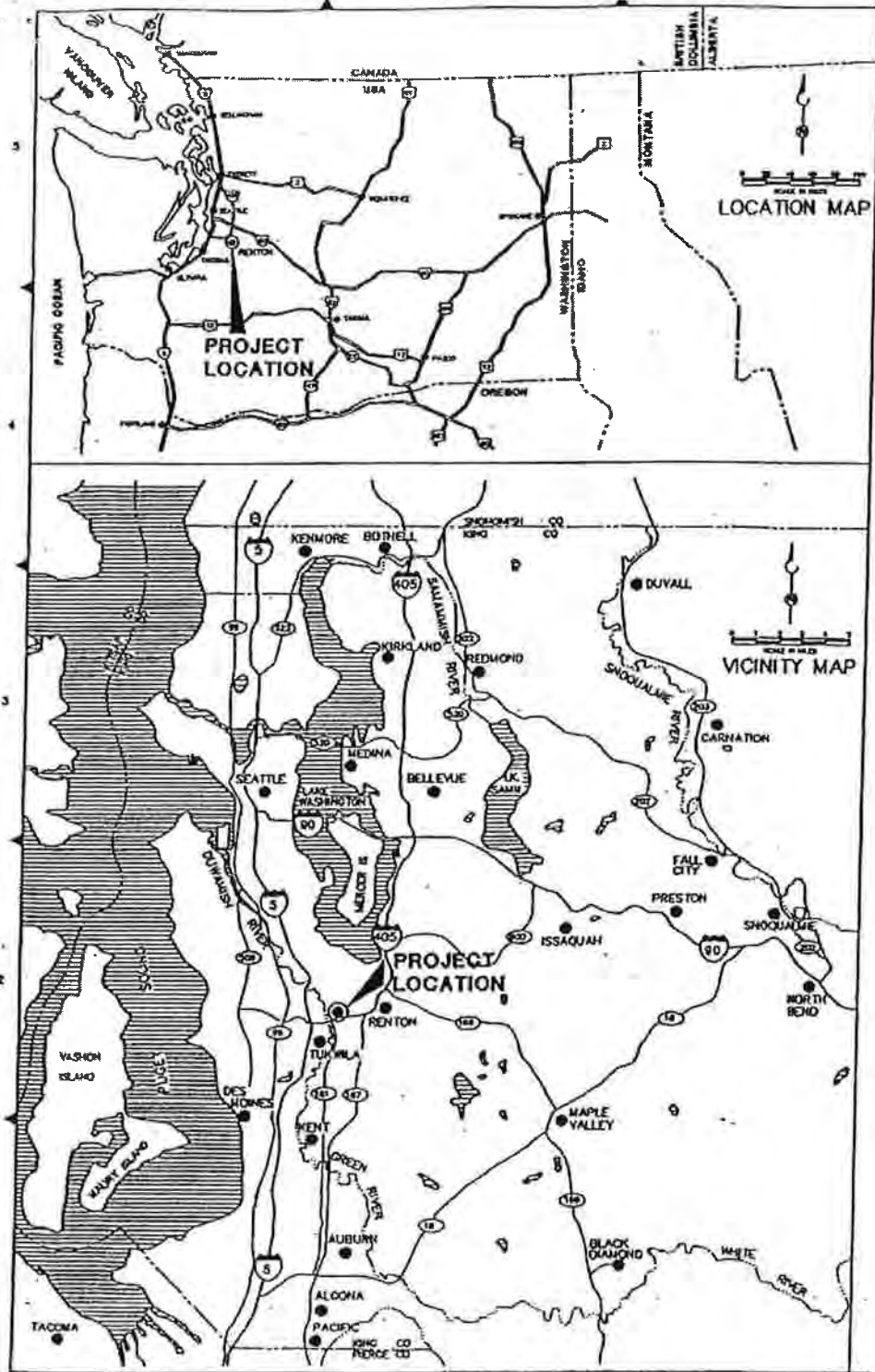
Section I: Buildings

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO ₂ e)			Lifespan Emissions (MTCO ₂ e)
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building	0		33	357	766	0
Multi-Family Unit in Small Building	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education		0.0	39	646	361	0
Food Sales		0.0	39	1,541	282	0
Food Service		0.0	39	1,994	561	0
Health Care Inpatient		0.0	39	1,938	582	0
Health Care Outpatient		0.0	39	737	571	0
Lodging		0.0	39	777	117	0
Retail (Other Than Mall).....		0.0	39	577	247	0
Office		0.0	39	723	588	0
Public Assembly		0.0	39	733	150	0
Public Order and Safety		0.0	39	899	374	0
Religious Worship		0.0	39	339	129	0
Service		0.0	39	599	266	0
Warehouse and Storage		0.0	39	352	181	0
Other		0.048	39	1,278	257	76
Vacant		0.0	39	162	47	0

Section II: Pavement.....

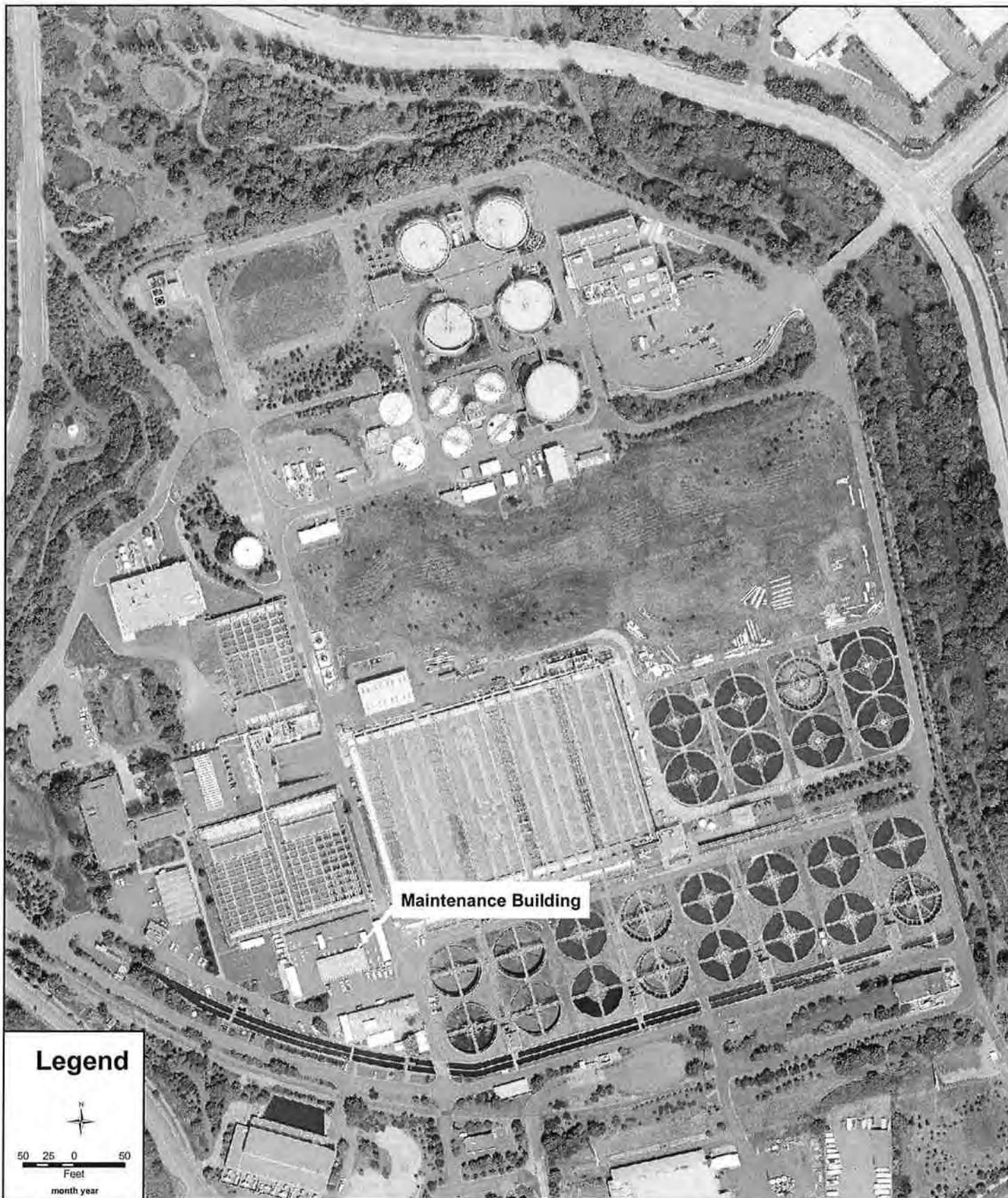
Pavement.....		0.00				0
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Total Project Emissions:
76



Location/Vicinity Map

South Treatment Plant
Cogeneration Facility



King County

Department of
Natural Resources and Parks
**Wastewater Treatment
Division**

The information included on this map has been compiled from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.

File Name:
Data Source:

South Treatment Plant Maintenance Annex Building

Figure 2

Site Map